



**Glass
Qualifications
Authority**

Glass Operations Summary of the NVQ/SVQ Glass Manufacturing Level 3

NVQ 100/3862/0
SVQ G7EK 23

WHO IS THIS QUALIFICATION FOR?

This qualification is part of an overall Level 3 national occupational standard. This qualification is aimed at those who undertake routine and complex activities in the glass manufacturing sector. It is not expected that candidates working in glass manufacturing all do the same activities: the qualification is structured to ensure that there is a high degree of flexibility in the qualification, although there are common units in the mandatory section of the qualification. The standard covers the most important aspects of the job. This qualification is at Level 3, and should be taken by those who are experienced glass makers. Candidates will often take a technical supervisory role, particularly in relation to less-experienced workers.

A further qualification for Glass Manufacturing at Level 2 is also available.

Candidates for this qualification will primarily be:

- working in glass making factories
- working with raw materials, melted glass materials, or semi-finished products

Candidates are likely to have jobs entitled:

- Batch Plant Controller
- Forming Controller
- Furnace Controller
- Glass Technician
- Glass Manufacturer
- Leading Glass Hand
- Machine Controller
- Melting Controller
- Process Technician

WHAT IS REQUIRED FROM CANDIDATES?

Candidates should achieve all 5 mandatory units listed below, plus 4 of the optional units. Candidates should prove that they can achieve all the statements listed for each element. Guidance on the evidence that will be acceptable is contained in the introduction to each unit.

Mandatory Units (all 5 units to be taken)

- Unit 1 Promote and maintain health and safety within the working environment
- Unit 2 Improve the work of the organisation
- Unit 3 Assess the quality of glass-related materials
- Unit 4 Diagnose and rectify technical problems
- Unit 5 Plan the use of resources to meet work requirements

Optional Units (any 2 units from Group 1, plus any 2 units from Group 2)

Group 1

- Unit 6 Develop new work procedures
- Unit 7 Set up equipment for operations
- Unit 8 Control glass manufacturing operations
- Unit 9 Maintain and improve hygiene in glass production

Group 2

- Unit 10 Process products and materials by applying coatings or treatments
- Unit 11 Receive glass raw materials for manufacturing operations
- Unit 12 Prepare glass raw materials for manufacturing operations
- Unit 13 Control the flow of glass raw materials through the melting process
- Unit 14 Control the operating conditions within the melting process
- Unit 15 Control melted glass within the forming process
- Unit 16 Form glass products
- Unit 17 Anneal glass products and materials



Glass Manufacturing Level 3

NVQ 100/3862/0
SVQ G7EK 23

List of Units

Unit 1	Promote and maintain health and safety within the working environment	Unit 10	Process products and materials by applying coatings or treatments
Element 1.1	Maintain the health and safety of individuals	Element 10.1	Prepare products and materials for processing
Element 1.2	Minimise injury to individuals and damage to property in an emergency	Element 10.2	Apply coatings or treatments to products and materials
Element 1.3	Promote health and safety in the working environment	Element 10.3	Finish products and materials to protect coatings or treatments
Unit 2	Improve the work of the organisation	Unit 11	Receive glass raw materials for manufacturing operations
Element 2.1	Improve the effective use of resources	Element 11.1	Receive delivery of glass raw materials
Element 2.2	Obtain and provide information	Element 11.2	Retrieve glass raw materials within the site
Element 2.3	Develop and maintain good working relationships	Element 11.3	Monitor the stock level of glass raw materials within the site
Unit 3	Assess the quality of glass-related materials	Unit 12	Prepare glass raw materials for manufacturing operations
Element 3.1	Identify the characteristics and features of the glass-related materials	Element 12.1	Prepare glass raw materials
Element 3.2	Detect a variation in the quality of glass-related materials	Element 12.2	Batch glass raw materials
Element 3.3	Identify the causes of variations in the quality of glass-related materials	Unit 13	Control the flow of glass raw materials through the melting process
Unit 4	Diagnose and rectify technical problems	Element 13.1	Monitor the supply of glass raw materials into the melting process
Element 4.1	Investigate technical problems	Element 13.2	Control the flow of melted glass
Element 4.2	Diagnose the causes of technical problems	Unit 14	Control the operating conditions within the melting process
Element 4.3	Rectify technical problems	Element 14.1	Control the temperature of materials and equipment
Unit 5	Plan the use of resources to meet work requirements	Element 14.2	Control operating conditions within the melting equipment
Element 5.1	Identify the work that needs to be achieved	Element 14.3	Implement emergency procedures to control melting equipment
Element 5.2	Utilise resources to achieve work requirements	Unit 15	Control melted glass within the forming process
Element 5.3	Monitor the progress of work	Element 15.1	Monitor the supply of melted glass into the forming process
Unit 6	Develop new work procedures	Element 15.2	Control the transfer of melted glass through the forming process
Element 6.1	Assess the requirements of the work	Unit 16	Form glass products
Element 6.2	Specify new work procedures to meet requirements	Element 16.1	Monitor the forming of glass products
Unit 7	Set up equipment for operations	Element 16.2	Control the forming of glass products
Element 7.1	Determine settings for the equipment	Unit 17	Anneal glass products and materials
Element 7.2	Monitor the operation of the equipment	Element 17.1	Anneal glass products and materials to meet specifications
Unit 8	Control glass manufacturing operations	Element 17.2	Finish glass products and materials after annealing
Element 8.1	Monitor glass manufacturing operations		
Element 8.2	Provide advice and guidance on glass manufacturing operations		
Unit 9	Maintain and improve hygiene in glass production		
Element 9.1	Maintain and improve hygienic work practices		
Element 9.2	Contribute to the improvement in hygiene standards		